

(use as many sheets as necessary)

MS1-684US

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Application Number	09/731,481
Filing Date	12/6/2000
First Named Inventor	Liu
Group Art Unit	2623
Examiner Name	ANAND P BHATNAGAR
Attorney Docket Number	MS1-684US

(use as many sheets as necessary)

2 of 2

[illegible]

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.
Applicant's unique citation designation number (optional). Applicant is to place a check mark here if English language Translation is attached.
This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2

Under the Paperwork Reduction Act of 1996, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1040-PT

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known

Application Number	09/731,481
Filing Date	12/6/2000
First Named Inventor	Liu et al.
Art Unit	2623
Examiner Name	ANAND P BHATNAGAR
Attorney Docket Number	MS1 - 684US

Sheet	1	of	2
-------	---	----	---

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
AB ↓		US- 20020102010	8/1/2002	Liu et al.	
		US- 5864630	1/26/1999	Cosatto et al.	
		US- 5995119	11/30/1999	Cosatto et al.	
		US- 6118887	9/12/2000	Cosatto et al.	
		US- 6154559	11/28/2000	Beardsley, Paul Anth	
		US- 6173069	1/9/2001	Daly et al.	
		US- 6445810	9/3/2002	Darrell et al.	
		US- 6504546	1/7/2003	Cosatto et al.	
		US- 6661907	12/9/2003	Ho et al.	
		US- 6714660	3/30/2004	Ohba, Akio	
		US- 6747652	6/8/2004	Inoue et al	
		US- 6771303	8/8/2004	Zhang et al.	
		US- 6807290	10/19/2004	Liu et al.	
	US- 6879709	4/12/2005	Tian et al.		
		US-			
		US-			
		US-			
		US-			
		US-			

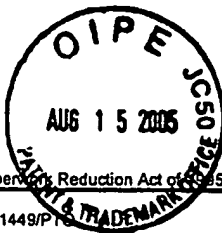
[illegible]

Examiner Signature	<i>Amund R. Truog</i>	Date Considered	11/22/05
-----------------------	-----------------------	--------------------	----------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



PTO/SB/088 (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/P1

Complete if Known

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet

2

of

2

Application Number

09/731,481

Filing Date

12/6/2000

First Named Inventor

Liu et al.

Art Unit

2623

Examiner Name

ANAND P BHATNAGAR

Attorney Docket Number

MS1- 684US

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
AB		Fritsch et al. "Improving adaptive skin color segmentation by incorporating results from face detection, IEEE 0-7803-7549-9, 337-343.	
		Spors et al. "A real-time face tracker for color video", IEEE 0-7803-7041- 4/01, 1493-1496.	
		Saber et al. "Face detection and facial feature extraction using color, shape and symmetry based cost function", IEEE 1015-4651/96, 654-658.	
		Shinjiro Kawato et al. "Automatic Skin-color Distribution Extraction for Face Detection and Tracking" IEEE 0-7803-5747, pgs 1415-1418.	

Examiner
Signature

Date

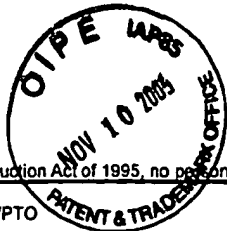
Considered

11/21/05

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number	09/731,481
Filing Date	12/6/2000
First Named Inventor	Liu et al.
Art Unit	2623
Examiner Name	ANAND P BHATNAGAR
Attorney Docket Number	MS1 - 684US

Sheet 1 of 2

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
AB ↓		US- 6,009,210	12/28/1999	Kang	
		US- 6,047,078	4/4/2000	Kang	
		US- 6,188,777	2/13/2001	Darrell, et al.	
		US- 6,526,161	2/25/2003	Yan	
		US- 6,532,011	3/11/2003	Francini, et al.	
		US- 6,556,196	4/29/2003	Blanz, et al.	
		US- 6,580,821	6/17/2003	Roy	
		US- 6,919,892	7/19/2005	Cheiky, et al.	
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			

FOREIGN PATENT DOCUMENTS

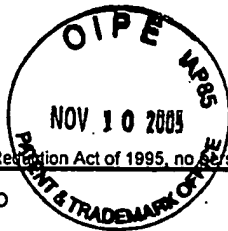
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				

Examiner
Signature*Anand Bhatnagar*Date
Considered*11/22/05*

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 801.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.18 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



PTO/SB/08B (08-03)

Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number	09/731,481
Filing Date	12/6/2000
First Named Inventor	Liu et al.
Art Unit	2623
Examiner Name	ANAND P BHATNAGAR
Attorney Docket Number	MS1 - 684US

Sheet 2 of 2

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
AB		Pighin Frederic et al., Synthesizing Realistic Facial Expressions from Photographs, ACM ISBN: 0-89791-9998-8, 1-10	
AB		Pei et al., Global Motion Estimation in Model-Based Image Coding by Tracking Three-Dimensional Contour feature Points, IEEE 1051-8215/98, 181-189.	
AB		Liu et al., Robust Head motion Computation by Taking Advantage of Physical Properties, IEEE 0-7695-0939-8/00, pages 73-77	
AB		Madhu et al., A robust model based approach for eD head tracking in video sequences, pages: 169-174.	
AB		Lopez et al., 3D Head Pose Computation from 2D Images, IEEE, 0-8186-7310, pages: 599-602	
AB		Zhang et al., "Rapid Modeling of 3D Faces for Animation Using An Efficient Adaptation Algorithm	
AB		Kawato et al., "Automatic Skin-color Distribution Extraction for Face Detection and Tracking", IEEE 0-7803-5747-700, 2000 IEEE.	

Examiner Signature	<i>Anand Bhatnagar</i>	Date Considered	11/21/05
--------------------	------------------------	-----------------	----------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.